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	Application No.	Applicant(s)
Notice of Allowability	09/782,446	HO ET AL.
	Examiner	Art Unit
	Lan Vinh	1765
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. A This communication is responsive to Response filed on 11/4/2003. 2. The allowed claim(s) is/are 4.5.7-9.11,13,20-22 and 24-34. 3. The drawings filed on 12 February 2001 are accepted by the Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the:		
Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
 Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). 		
* Certified copies not received:		
 Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 		
(a) ∐ The translation of the foreign language provisional application has been received.		
 Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
 A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 		
 CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No 		
(b) 🗌 including changes required by the proposed drawing correction filed, which has been approved by the Examiner.		
(c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).		
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1 Notice of References Cited (PTO-892)		itent Application (PTO-152)
 Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No 		PTO-413), Paper No
	^{),} 7∐ Examiner's Amendm	ent/Comment
4 Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Statemer 9⊡ Other	nt of Reasons for Allowance
		Lan Vinh AU 1765

U.S. Patent and Trademark Office PTOL-37 (Rev. 11-03) Application/Control Number: 09/782,446

Art Unit: 1765

Allowable Subject Matter

1. Claims 4-5, 7-9, 11, 13, 20-22, 24-34 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claims 4, 13, the applicants have presented persuasive argument that the cited prior art of record fails to disclose a method of etching an organic dielectric layer over a substrate comprises the step of generating an etchant gas comprising NH3, which selectively etches the organic dielectric layer with respect to the hard mask/which is able to selectively etch the organic low k dielectric layer with respect to the hard mask and strips the photoresist layer. In the contrary, the closest cited prior art of Yen (US 6,080,529) discloses a step of etching silicon dioxide masking layer 222/hard mask more rapidly than organic low k dielectric layer 220/ selectively etch the hard mask layer with respect to the organic low k dielectric layer using NH3 (col 12, lines 60-62).

Regarding claim 24, the applicants have presented a persuasive argument that the cited prior art of record fails to disclose a method of etching an organic dielectric layer comprises the step of generating a plasma from a NH3 gas with a flow rate from about 300 sccm to about 800 sccm, which etches the organic dielectric layer. The closest cited prior art of Kadomura et al (US 6,352,937) discloses generating a plasma from a NH3 gas with a flow rate from about 100 sccm, which etches the organic layer 4

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lan Vinh whose telephone number is 703 305-6302.
 The examiner can normally be reached on M-F 8:30-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on 703 305-2667. The fax phone number for the organization where this application or proceeding is assigned is 703 872-9310.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308-0661.

LV

December 8, 2003